

Material Safety Data Sheet

PRODUCT NAME

(Description)

MSDS # 90090172

REVISION 0 - JUN/2003

25%LEL (0.548% vol.) Isopropyl Alcohol
Balance Air

TRADE NAME & SYNONYMS

Calibration Gas

5480ppm mol. Isopropanol
Balance Air

5480ppm mol. Isopropyl Alcohol (IPA)
Balance Air

CHEMICAL NAME & SYNONYMS

5480ppm Molar 2-Propanol
Balance Air

FORMULA (minor component)

C_3H_8O

CAS NUMBERS

Isopropyl Alcohol 67-63-0
Air N/A

CHEMICAL FAMILY

Compressed Gas Mixture

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HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE (TWA) EXPOSURE LIMITS (ACGIH 1991-92 and later)
(also OSHA PEL)

400ppm, STEL 500 ppm (molar);

Isopropyl Alcohol is moderately toxic, as an irritant and narcotic. Oxygen levels should be maintained at greater than 18 molar percent, but less than 23 molar percent at normal atmospheric pressures.

SYMPTOMS OF EXPOSURE

Eyes, mucous membranes and upper respiratory irritations may result from exposure causing: nausea, headache and vomiting.

TOXICOLOGICAL PROPERTIES

Isopropyl Alcohol vapors can be absorbed through the skin and lungs, targeting neural areas creating behavioral (hallucinations) and other perception distortions; cardiac (pulse rate decreased with fall in BP); and vascular.

RECOMMENDED FIRST AID TREATMENT

Relocate personnel affected to uncontaminated area and inhale fresh air/administer Oxygen. Aid breathing if necessary. Wash with copious amounts of water.

POTENTIALLY HAZARDOUS MIXTURES WITH OTHER CHEMICALS

Strong oxidizing agents

Acids

Acid Anhydrides

Halogens

Aluminum

PHYSICAL DATA

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MOLECULAR WEIGHT

29.14 typical

SPECIFIC GRAVITY

1 (Air = 1)

VAPOR PRESSURE

@70F, above Critical Temperatures

BOILING POINT

82.4 deg.C (minor component)

APPEARANCE AND ODOR

Shipped in compressed gas cylinders under pressure (typically 60 - 85 psig).
Vapor is colorless and odorless.

FIRE & EXPLOSION HAZARD DATA**FLAMMABLE LIMITS % BY VOLUME**

N/A (25% LEL)

EXTINGUISHING MEDIA

N/A (Nonflammable gas), use water, CO₂, foam, dry chemical, if involved in a fire.

NFPA 704 NUMBER (HFR)

0 0 0

ELECTRICAL CLASSIFICATION

Nonhazardous

FLASH POINT

N/A

AUTO IGNITION TEMPERATURE

N/A

SPECIAL FIRE FIGHTING PROCEDURES

When the mixture is involved in a fire, the compressed air balance gas at high pressures will accelerate the burning of materials at a greater rate.

UNUSUAL HAZARDS

None

REACTIVITY DATA**STABILITY**

Stable

INCOMPATIBILITY

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Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

CO₂ and CO

HAZARDOUS POLYMERIZATION PRODUCTS

None

CONDITIONS TO AVOID

Cylinder temperatures should not exceed 130F (54C).

ACTIONS TO BE TAKEN IN THE EVENT OF AN UNINTENDED RELEASE (LEAK)

FOR EMERGENCIES INVOLVING THIS PRODUCT CALL INFOTRAC (800)535-5053

Evacuate all personnel from the affected area. Use appropriate protective equipment. Shut off flow of gas if safe to do so, and purge lines with an inert gas.

WASTE DISPOSAL METHODS

Do not attempt to dispose of any unused quantities of product or their containers without contacting Portagas for instructions.

PERSONAL PROTECTION INFORMATION

RESPIRATORY/VENTILATION

NIOSH approved respirator for hydrocarbons and/or hood with forced ventilation.

GLOVES

Rubber (neoprene)

EYES AND OTHER

Safety goggles or glasses.

15 minute shower/eyewash,
steel toed/metatarsal protection shoes.

SPECIAL SAFETY AND REGULATORY CONSIDERATIONS

LABELING	DOT Shipping name:	Compressed gases, n.o.s.
	DOT Description:	(Isopropyl Alcohol, Air)
	Identification No.:	UN 1956
	Hazard Class, Div.:	Nonflammable Gas, 2.2
	IATA Packing Inst.:	200

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HANDLING

Use only in well ventilated areas. The cylinder should be secured with a chain, strap on its side or by use of a stand when connected to a regulator. Do not drag, drop or roll the cylinder. Use both hands when carrying the cylinder. Do not heat the cylinder. One-way check valves in the use line are recommended to prevent backflow. Systems should be cleaned "for Oxygen service" before first use.

STORAGE

Protect the cylinders from physical damage. Store the cylinders in a cool (<130F), dry, ventilated, posted "no smoking or open flames" area constructed of non-combustible materials, and away from aisles and other traffic areas. Keep full cylinders separated from empties. Rotate stock first-in, first-out (FIFO).

PACKAGING

Use the cylinders as provided, with the recommended regulator. Do not attempt to refill the cylinder or transfill the product from one container to another.

OTHER PRECAUTIONS

Conduct monitoring of gas exposure to personnel, do not rely on odor as a way to detect the presence of gas.